

July 6 - 54

ARMSTRONG-BRAY & CO.

CATALOG No. 12P

GEAR, WHEEL and BEARING PULLERS

WHEREVER MACHINES OPERATE; wherever motors, gears, pulleys or shafting turn, there is occasionally an urgent need for pullers. They are essential tools in industrial maintenance departments . . . are in continuous use in all efficient automotive and aeronautical service shops. They are inexpensive "lifetime" tools that make difficult, dangerous and tedious jobs, easy, safe and quick. They save time, prevent damage to equipment and breakage of parts; prevent costly delay and extended shut-downs. Armstrong-Bray & Co. manufacture a most complete line of gear, wheel and bearing pullers for general use. Special pullers for unique applications, in addition to those cataloged here, will also be furnished.

GUARANTEE —

All Armstrong-Bray & Co. Products are of highest quality and guaranteed against defective workmanship and material.

INDUSTRIAL PULLERS

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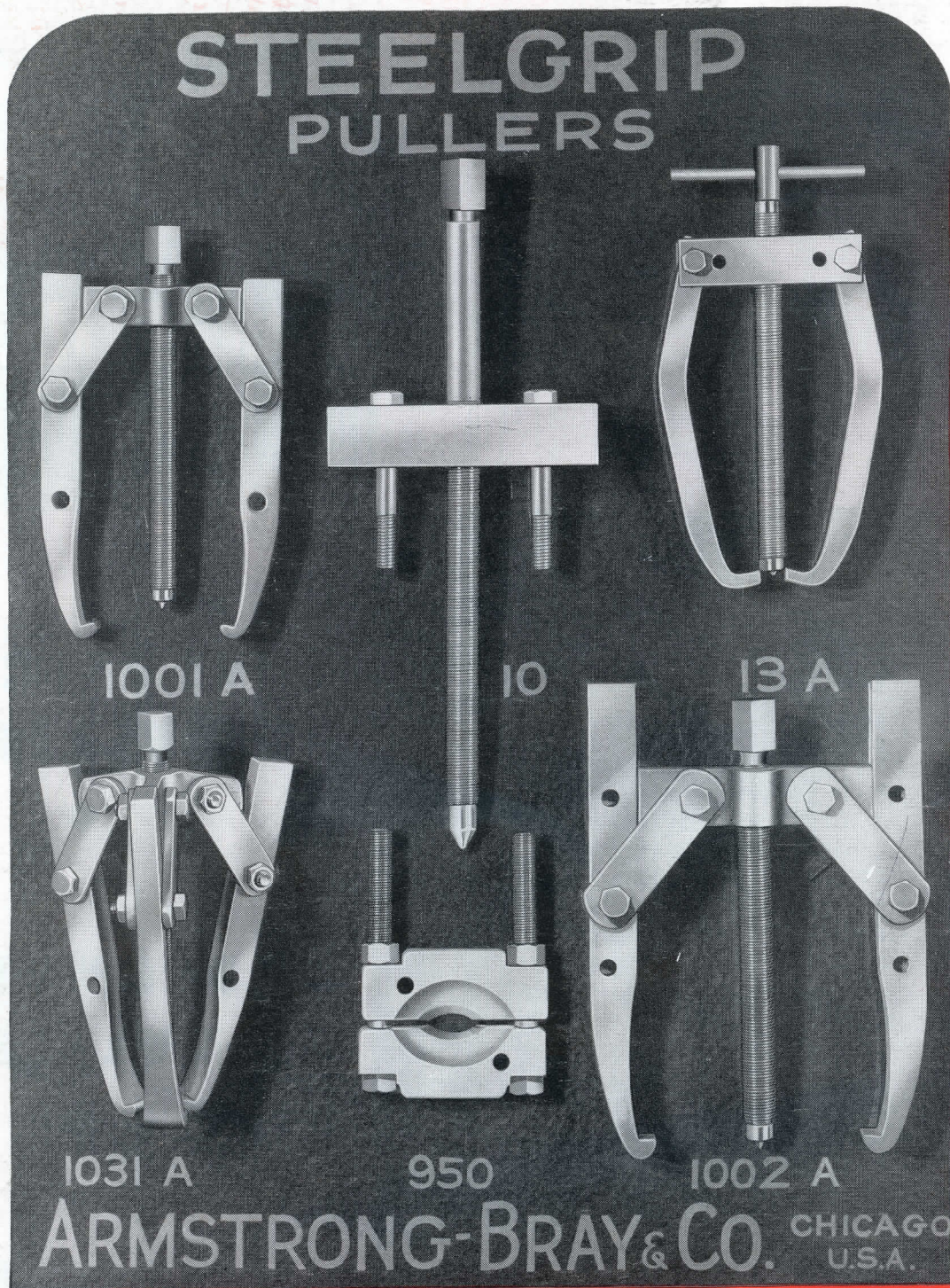
AUTOMOTIVE PULLERS

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SPECIAL PULLERS

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ARMSTRONG-BRAY & CO.
5366 NORTHWEST HIGHWAY • CHICAGO 30, ILLINOIS



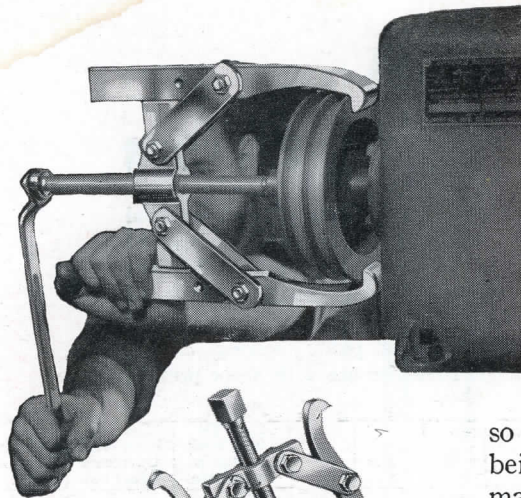
SD 2 Display Board & Tool Rack

(1) for displaying and selling individual pullers

(2) for selling as a unit—A set of pullers on a permanent tool rack

6 of the most popular pullers packaged complete with display board and tool rack. The board is constructed of heavy gauge steel furnished in baked enamel, measuring 22 by 24 inches. When properly displayed, this board is an efficient silent salesman and can increase your gear, wheel and bearing puller sales. Individual pullers may be sold from this board or complete boards may be passed on to the user for a permanent tool rack.

The board is packed as a complete unit in order that the jobber and dealer may ship direct from stock without additional labor of packings. Approximate shipping weight 28 pounds complete with pullers.



ARMSTRONG-BRAY STEELGRIP Rigid Arm Pullers

The STEELGRIP Puller is made in both 2 and 3 arm types and so constructed with its lock-on features that it will not slip off work being pulled. These tools are forged of alloy steel and heat treated for maximum pulling strength. The arms and screws of both 2 and 3 arm pullers are interchangeable.

STANDARD 2-ARM PULLERS

Arms of pullers of all but smallest sizes have more than 1 hole for adjustment for both long and short reach. The two smallest sizes 1001 and 1002 have reversible arms. (See page 6).

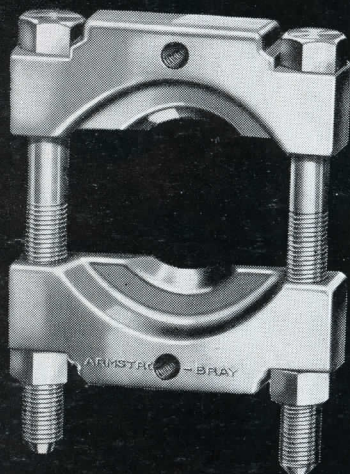
Steelgrip 2 Arm Puller No.	A Spread Range	B Max. Reach	C Length of Screw	D Screw Head	E Buttress Thread	F Screw Point	Approx. Test Load in Lbs.	Approx. Shipping Weight
1001	0-6"	3 1/4"	6"	5/8 sq.	3/16x20	3/16x60°	10,000	1 3/4 lbs.
1001A	0-8"	5 1/2"	6 15/16"	5/8 sq.	3/16x20	3/16x60°	10,000	2 lbs.
1002	0-8"	5 1/2"	9"	3/4 sq.	11/16x18	1/4x60°	18,000	4 1/2 lbs.
1002A	0-10"	8 1/2"	9"	3/4 sq.	11/16x18	1/4x60°	18,000	5 lbs.
1003	0-12"	10"	12"	7/8 sq.	13/16x16	3/8x60°	33,000	10 1/2 lbs.
1003A	0-14"	15"	12"	7/8 sq.	13/16x16	3/8x60°	33,000	13 lbs.
1003 1/2	0-14"	14"	17 1/2"	1 3/8 Hex.	1 1/4x12	3/16x60°	44,000	23 lbs.
1003 1/2 A	0-16"	18"	17 1/2"	1 3/8 Hex.	1 1/4x12	3/16x60°	44,000	26 lbs.
1004	0-18"	15 1/2"	17 1/2"	1 3/8 Hex.	1 1/4x12	3/16x60°	56,000	37 1/2 lbs.
1004A	0-20"	22"	17 1/2"	1 3/8 Hex.	1 1/4x12	3/16x60°	56,000	43 lbs.

STANDARD 3-ARM PULLERS

STEELGRIP 3-arm pullers are recommended for work where a 3 point grip is needed. These pullers embody the same design and adjustments as the 2-arm pullers, No. 1031 and 1032 have reversible jaws.

Steelgrip 3 Arm Puller No.	A Spread Range	B Max. Reach	C Length of Screw	D Screw Head	E Buttress Thread	F Screw Point	Approx. Test Load in Lbs.	Approx. Shipping Weight
1031	0-6"	3 1/4"	6"	5/8 sq.	3/16x20	3/16x60°	10,000	2 1/2 lbs.
1031A	0-8"	5 1/2"	6"	5/8 sq.	3/16x20	3/16x60°	10,000	3 1/4 lbs.
1032	0-8"	5 1/2"	9"	3/4 sq.	11/16x18	1/4x60°	18,000	6 1/2 lbs.
1032A	0-10"	8 1/2"	9"	3/4 sq.	11/16x18	1/4x60°	18,000	8 lbs.
1033	0-12"	10"	12"	7/8 sq.	13/16x16	3/8x60°	30,000	14 lbs.
1033A	0-14"	15"	12"	7/8 sq.	13/16x16	3/8x60°	30,000	18 lbs.
1033 1/2	0-14"	14"	13 1/2"	1 3/8 Hex.	1 1/4x12	3/16x60°	44,000	33 lbs.
1033 1/2 A	0-16"	18"	13 1/2"	1 3/8 Hex.	1 1/4x12	3/16x60°	44,000	37 lbs.
1034	0-18"	15 1/2"	15"	1 3/8 Hex.	1 1/4x12	3/16x60°	56,000	55 lbs.
1034A	0-20"	22"	15"	1 3/8 Hex.	1 1/4x12	3/16x60°	56,000	70 lbs.

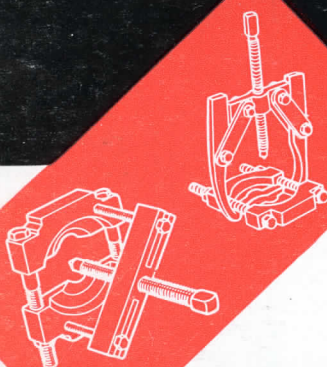
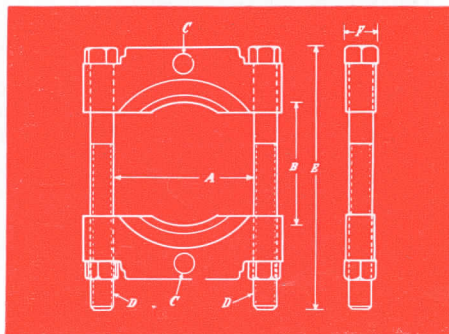
ARMSTRONG-BRAY Bearing Separators



The Bearing Separator, a tool designed for the easy removal of bearings, cone shape gears and thin face gears. The bevelled edge of these tools is for the insertion behind gears, bearings of pulleys where the space is not great enough to allow the insertion of the jaws of a puller. Used in conjunction with the standard 2-arm puller or universal puller, bearings can be removed without damage. Ideal for use with arbor presses.

Bearing Separator No.	A	B Max.	B Min.	C	D	E	F	Can Be Used With Steelgrip Puller No.	Can Be Used With Universal Puller No.	Shipping Weight Lbs.
950	2 1/4"	2 1/4"	0"	3/8"-16	7/16"	4 1/16"	5/8"	1001 1002	5 10	1 1/4
951	4 1/4"	4 1/4"	0"	3/8"-18	5/8"	7 3/4"	1 1/16"	1002 1003	110 205	5
952	6"	5 3/4"	1"	3/8"-18	3/4"	10"	1 1/4"	1003 1003 1/2	205 210	12
952A	6"	9"	1"	3/8"-18	3/4"	13"	1 1/4"	1003 1003 1/2	205 210	13
953	10"	9"	1"	1"-14	1 1/8"	17 3/8"	1 7/8"	1004	230	42

These Bearing Separators are made in an assortment of sizes for use in the automotive, industrial, farm equipment, refrigeration, aircraft and electrical fields.



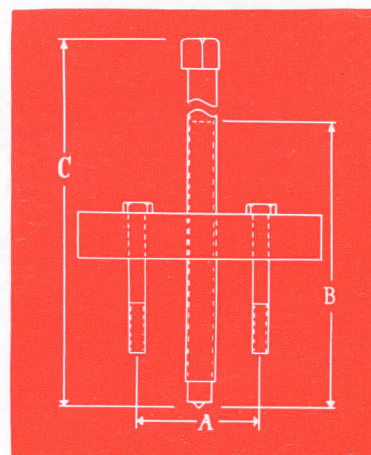
ARMSTRONG-BRAY Numbers 5 and 10 Pullers

No. 5 Puller

The #5 puller with its slotted bar has a wide range of adjustments. It can be used in conjunction with the 950 bearing separator as illustrated, ideal for electrical shops when used with the 950 bearing separator for pulling sheaves, pulleys and bearing races. It has a range from 0 to 2 3/4" O.D.

No. 10 Puller

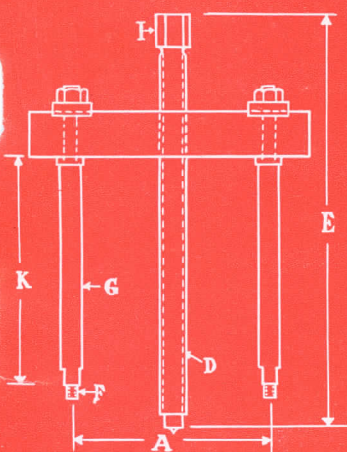
The #10 puller is designed for removing Timing Gears, fan pulleys, etc. It is also used in conjunction with the 950 bearing separator for use on objects which, because of their construction, are not readily pulled with the conventional type puller. The long forcing screw is designed to reach through the crank hole so the fan pulley can be removed without removing the radiator. Its range is from 1 1/2 to 4 1/2" O.D. Forcing screw 11 1/2"



Tool No.	A Min. & Max. Diameter	B Reach	C Forcing Screw Length	Forcing Screw Dia.	Stud Cap Screw	Used With Bearing Separator	Shipping Wgt.
5	1 1/2" to 4 1/2"	3"	8"	5/8"-18	3/8"-16	950	1 lb.
10	1 1/2" to 4 1/2"	3"	11 1/2"	5/8"-18	3/8"-16	950	2 1/2 lbs.

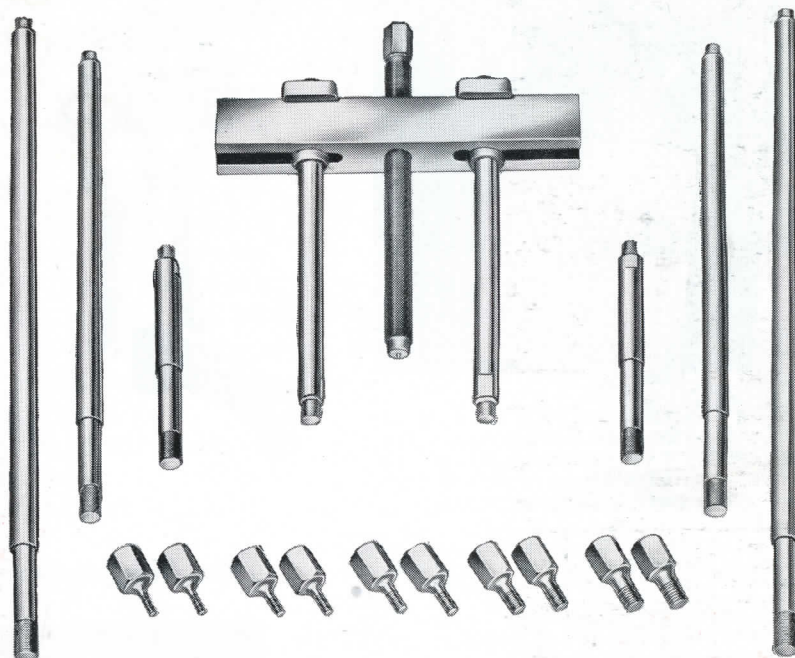
ARMSTRONG-BRAY

Universal Pullers



Pullers Nos. 110, 205, 210, 220 and 230 are designed to be used with the 951, 952, 952A and 953 bearing separators for removing pinions, pulleys, gears, wheels, bearings and sheaves.

Threaded adaptors (below) are used with these pullers for the removal of parts which are drilled and tapped to remove them. The pullers come with 1 set of legs but additional legs are available in various lengths (see table below).



Tool No.	A Spread Range	B	C	D	E	F	G	H	I	K	Standard Puller	Shipping Weight
110	2" to 7 3/4"	8 1/4"	1 3/8"	3/4" -16	12"	5/8"-18	5/8"	1/2"	1/8" sq.	6 3/4"	110 With 110-A Legs	7 lbs.
205	4 3/4" to 9 3/4"	10 1/2"	2"	1" -14	13"	5/8"-18	7/8"	3/4"	1" Hex.	9 1/2"	205 With 205-D Legs	18 lbs.
210	4 3/4" to 12 3/4"	13 1/2"	2"	1" -14	13"	5/8"-18	7/8"	3/4"	1" Hex.	9 1/2"	210 With 210-D Legs	20 lbs.
220	5 1/4" to 14 3/4"	16"	2 1/4"	1 1/4" -12	15 1/2"	1"-14	1 1/4"	1"	1 1/4" Hex.	8"	220 With 220-PA Legs	33 lbs.
230	8 1/2" to 16 3/4"	18"	2 1/2"	1 1/2" -12	16 1/2"	1"-14	1 1/4"	1"	1 1/4" Hex.	8"	230 With 230-A Legs	46 lbs.

Accessories and Parts for ARMSTRONG-BRAY Universal Pullers

Leg No.	110-A	110-A1	110-B	205-B 210-B	205-C 210-C	205-D 210-D	205-E 210-E	205-F 210-F	220-PA	220-PB	220-PC	230-A	230-B	230-C
Length (K)	6 3/4"	11 3/4"	15 3/4"	16 1/2"	22 1/2"	9 1/2"	4 1/2"	30"	8"	18"	28"	8"	18"	28"
Use With Tool No.	110	110	110	205 210	205 210	205 210	205 210	205 210	220	220	220	230	230	230
Use Adaptor No.	916	916	916	924	924	924	924	924	932-B	932-B	932-B	932-B	932-B	932-B
Weight Per Pair—lbs.	1.5	2.25	3.25	6.5	9	4.25	2.5	11.5	7	12.5	18	18	15	22



FEMALE THREADED ADAPTORS

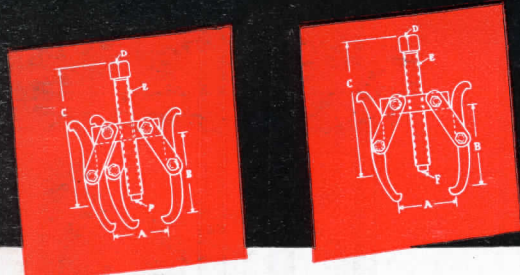
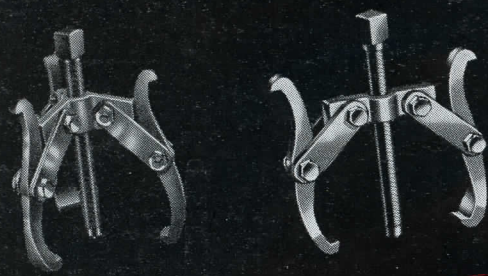
No.	Size	Wt.
916	1/4"-20 x 5/8"-18	2 oz.
920	5/8"-18 x 5/8"-18	2 oz.
924	5/8"-18 x 3/4"-16	3 oz.
925	5/8"-18 x 3/4"-20	3 oz.
926	5/8"-18 x 13/16"-16	3 oz.
928	5/8"-18 x 7/8"-14	4 oz.
929	5/8"-18 x 7/8"-18	4 oz.
932	5/8"-18 x 1-14	5 oz.
932-B	1-14 x 1-14	10 oz.
936	5/8"-18 x 1 1/8"-12	7 oz.
936-A	1-14 x 1 1/8"-12	12 oz.
940	5/8"-18 x 1 1/4"-12	7 oz.
940-A	1-14 x 1 1/4"-12	15 oz.
941	5/8"-18 x 1 1/4"-7	7 oz.
941-A	1-14 x 1 1/4"-7	15 oz.
948	5/8"-18 x 1 1/2"-12	13 oz.
948-A	1-14 x 1 1/2"-12	15 oz.
949	5/8"-18 x 1 1/2"-7	13 oz.
949-A	1-14 x 1 1/2"-7	15 oz.



MALE ADAPTOR PLUGS

No.	Male End	Female End	Lgth.	Wt.
13-M	1/8"-20	5/8"-18	2 1/4"	5 oz.
14-M	3/8"-24	5/8"-18	2 3/4"	5 oz.
15-M	5/8"-16	5/8"-18	2 3/4"	5 oz.
16-M	1/2"-20	5/8"-18	2 3/4"	5 oz.
17-M	1/2"-13	5/8"-18	2 3/4"	5 oz.
20-M	5/8"-11	5/8"-18	2 3/4"	5 oz.
24-M	3/4"-16	5/8"-18	2 3/4"	5 oz.
25-M	3/4"-10	5/8"-18	2 3/4"	6 oz.
28-M	7/8"-14	5/8"-18	2 3/4"	6 oz.
29-M	7/8"-9	5/8"-18	2 3/4"	6 oz.
32-M	1-14	5/8"-18	2 3/4"	8 oz.
36-M	1 1/8"-12	5/8"-18	2 3/4"	5 oz.
37-M	1 1/8"-Pipe	5/8"-18	2 3/4"	5 oz.
39-M	1 1/4"-Pipe	5/8"-18	2 3/4"	5 oz.
41-M	1 1/2"-Pipe	5/8"-18	2 3/4"	5 oz.
43-M	1 3/4"-Pipe	5/8"-18	2 3/4"	9 oz.
20-P	5/8"-11	1-14	2 1/2"	10 oz.
24-P	3/4"-16	1-14	2 1/2"	10 oz.
25-P	3/4"-10	1-14	2 1/2"	12 oz.
28-P	7/8"-14	1-14	2 3/4"	12 oz.
29-P	7/8"-9	1-14	2 3/4"	13 oz.
36-P	1 1/8"-12	1-14	2 3/4"	13 oz.

STEELGRIP Reversible Pullers



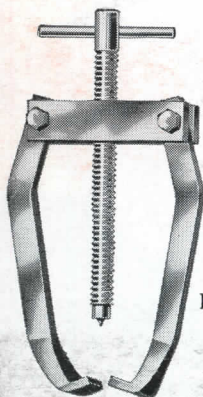
The 1001, 1031, 1002 and 1032 are designed with hooks on both ends of the arms. The standard width hook is for general use and the narrower small hook can be used in close places, inserted into holes in webs of gears or for pulling small timing gears, bearings or pinions.

2-Arm Puller No.	A Spread Range	B Max. Reach	C Lg. of screw	D Screw Head	E Buttress Head	F Screw pt.	Approx test load in lbs.	Approx. Shipping Wgt.
1001	0-6"	3 1/4"	6"	5/8 sq.	3/16x20	3/16x60°	10,000	1 3/4 lbs.
1002	0-8"	5 1/2"	9"	3/4 sq.	11/16x18	1/4x60°	18,000	4 1/2 lbs.

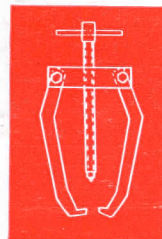
3-Arm Puller No.

1031	06"	3 1/4"	6"	5/8 sq.	3/16x20	3/16x60°	10,000	2 1/4 lbs.
1032	08"	5 1/2"	9"	3/4 sq.	11/16x18	1/4x60°	18,000	6 1/2 lbs.

Electrical Bearing Pullers

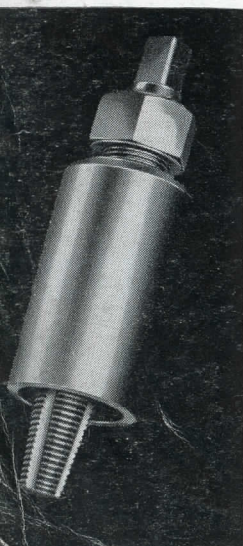


Electrical Bearing Pullers for generators, bearings and small gears. Have long flanged jaws to permit a firm grasp behind the object to be removed.

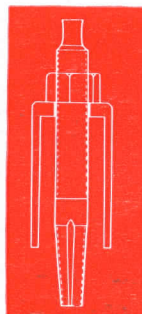


Puller No.	Reach	Max. Dia.
13	3 in.	4 in.
13A	5 in.	6 in.
13AS	8 in.	6 in.

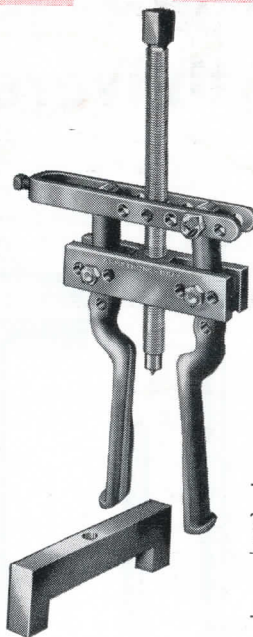
Bushing Extractor



Bronze bushings are easily removed from open or blind holes with this tool by: (1st) screwing the tapered-end of the screw into the bushing. (2nd) placing the collar forcing block over the free screw end, and (3rd) drawing out the screw and bushing by tightening the forcing nut against the collar. Capacity: Pulls all bronze bushings of not less than 5/8" or more than 1 1/16" I.D. which do not exceed 1 5/16" O.D.

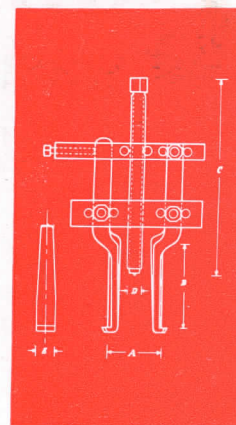


A-B Internal Puller



This puller is designed for pulling rear axle cups and bearings after axle is removed. Inside diameters from 1 1/2" to 6". Reach 4".

No. 61 Armstrong-Bray internal puller complete with housing bar.



Tool No.	A Min. Max.	B	C Screw Lg.	D Screw Dia.	E	Pulling Cap.	Wt.
61	1 1/2"-6"	4"	9"	5/8"-18	1 1/8	7000 Lbs.	7 Lbs.

No. 866 All-Purpose Slide Hammer Puller

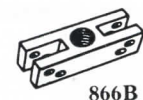


This extremely versatile 3 Arm slide hammer puller has reversible jaws—can be used both as an external puller (capacity 0" to 5") or as an internal puller (capacity 1 1/4" to 6"). It is a safe, convenient, "quick-action," impact tool. It is correctly designed and engineered and is drop forged from selected alloy steel.

No. 866A Slide Hammer Puller Set

This multi-purpose Puller Assembly comprises:

- 1 No. 866 Slide Hammer Puller (described above) with the following accessories.
- 1 No. 866B 2-way Cross Arm.
- 1 No. 866C 6", deep slotted Cap Screw Cross Arm
- 1 No. 866G Single Jaw Leg (2 15/16") for pulling grease retainers, bushings, etc.
- 1 No. 867S T-handle puller Shaft
- 1 No. 868S Hex Head Puller Screw (6 3/4")
- 1 No. 868T Interchangeable Centering Tip.



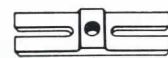
866B



867S



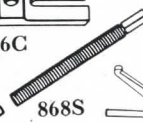
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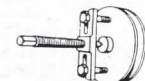
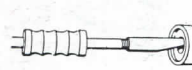
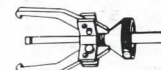
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868T



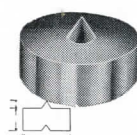
868S



SHAFT PROTECTORS

Used between the forcing screw and the end of the shaft, these Protectors prevent injury to the centers in shaft ends resulting from heavy pressure. No. 625A—Set of 6 Shaft Protectors (Sizes below)

No.	"A"	"B"	"C" 60°M	"D" 60°F
625-1	1 1/2"	3/4"	3/8"	2/16"
625-2	1 1/2"	3/4"	3/8"	3/16"
625-3	1"	3/4"	3/8"	3/16"
625-4	3/4"	3/4"	1/4"	1/4"
625-5	3/8"	3/8"	1/4"	1/4"
625-6	3/8"	3/8"	1/16"	3/16"



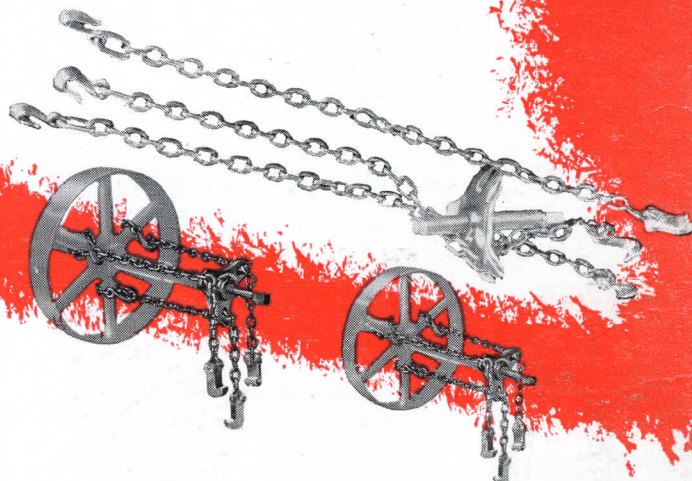
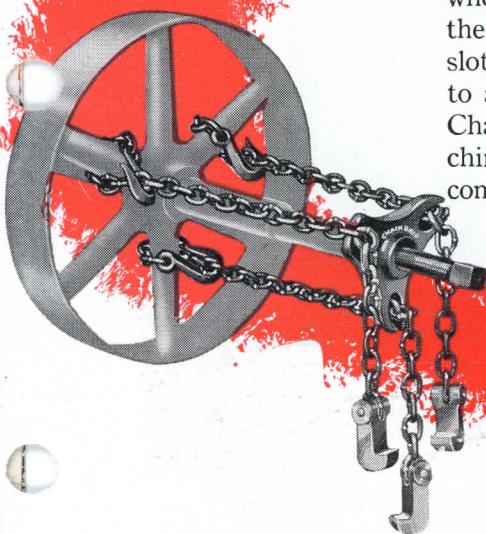
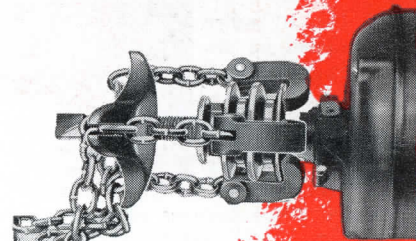
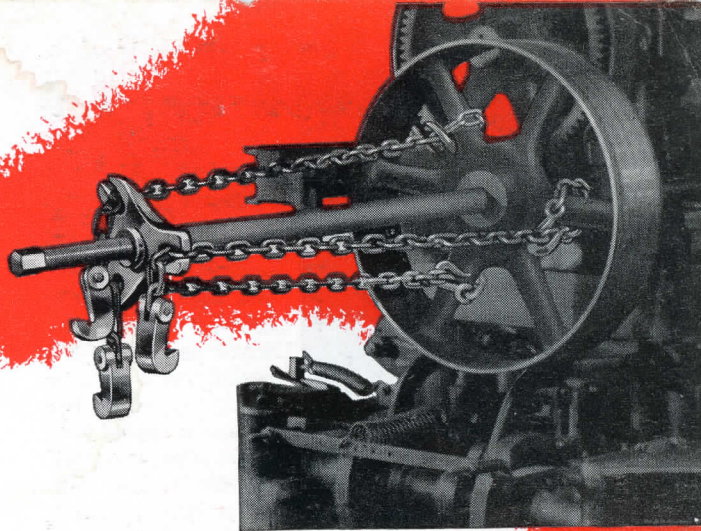
CHAINGRIP WHEEL PULLERS

Chaingrip pullers are recommended for pulling gears, wheels or pulleys, which are at considerable or varying distances from end of shaft, and for applications when a single puller is to be used for a wide variety of applications—large wheels, small motor pulleys, or wheels which are a great distance from end of shaft.

Chains have a standard chain hook on one end, (for use on spoked wheels) and special hooks on the other end (for pulling motor pulleys, pinions, sheaves) that are designed to make a sure grip

where space is limited. The yoke which supports the large heat-treated forcing screw has 3 chain slots that permit the instant adjustment of chains to any link length.

Chaingrip Universal Pullers for tractors, machinery line-shafting, refrigeration equipment, come in 4 sizes. All chains are proof-tested.



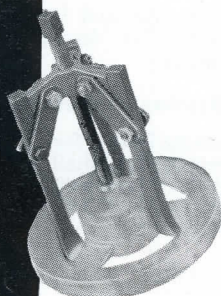
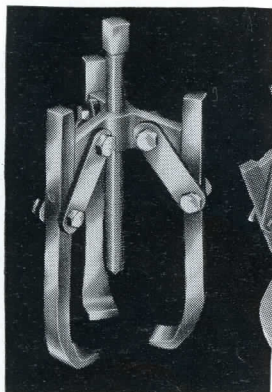
	Chain Length	Diameter Link	Approx. Pull Capacity	Weight
No. 1	18 in.	$\frac{3}{16}$ in.	1 ton	8 lbs.
No. 2	3 ft.	$\frac{1}{4}$ in.	3 tons	17 lbs.
No. 3	4 ft.	$\frac{3}{8}$ in.	7 tons	50 lbs.
No. 4	5 ft.	$\frac{1}{2}$ in.	12 tons	90 lbs.

APPLIANCE SERVICE PULLERS

Nos. R22 and R23 Refrigeration Pullers

A tool designed for the refrigeration field. Arms can be rotated 90 degrees for pulling spoked fly wheels. Has a range of 5 inches in reach and takes up to 6 inches in diameter.

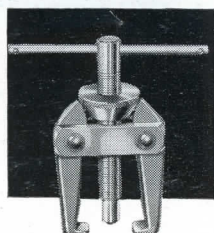
These pullers are forged with long wide jaws for a positive grip on fly wheels and can be used on many jobs outside the refrigeration field when a jaw of this type is needed.



No. 252 Bearing and Gear Puller

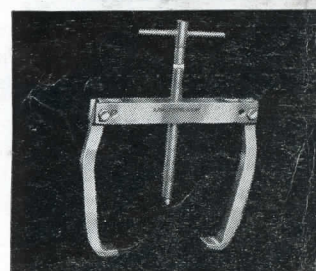
A small handy puller that goes into service kit—pulls motor pulleys, small sheaves and gears, easily, without breakage.

Tool No.	Reach	Min. & Max. Dia.	Weight
252	$1\frac{1}{4}$	0"-2"	1 lb.
2352	$2\frac{3}{8}$	0"-3 $\frac{1}{4}$ "	2 lb.

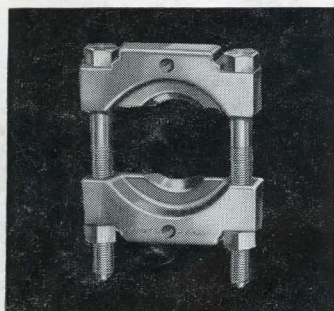


SH 40 OIL BURNER BLOWER PULLER

This tool is designed for the difficult job of removing oil burner blowers. Has a wide range—will take up to 7 $\frac{1}{2}$ inches in diameter and a reach of 5 inches.

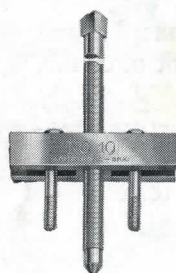
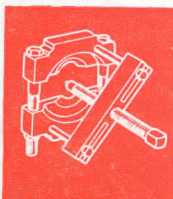


ARMSTRONG-BRAY Automotive Pullers



No. 10 Puller

The No. 10 puller is designed for removing Timing Gears, Fan Pulleys, etc. It is also used in conjunction with the 950 bearing separator for use on objects, which because of their construction, are not readily pulled with the conventional type puller. The long forcing screw is designed to reach through the crank hole so the fan pulley can be removed without removing the radiator. Its range is from 1½" to 4½" O.D. Forcing screw 11½".



Tool No.	A Min. & Max. Diameter	B Reach	C Forcing Screw Length	Forcing Screw Dia.	Stud Cap Screw	Used With Bearing Separator	Shipping Wgt.
5	1½" to 4½"	3"	8"	5/8"-18	3/8"-16	950	1 lb.
10	1½" to 4½"	3"	11½"	5/8"-18	3/8"-16	950	2½ lbs.

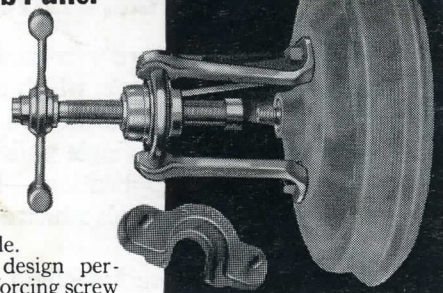
NOTE: For Bearing Separators in other sizes see page 4 of this catalog.

Bearing Separators

For easy removal of bearings, cone shaped and thin faced gears. Bevelled edges are inserted and drawn up behind gears to give enough spread for the jaws of a regular gear puller. Also can be used in conjunction with #10 puller as illustrated.

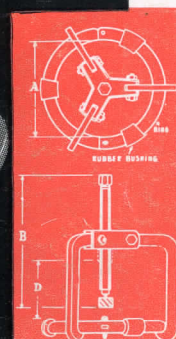
No. H50 Wheel Hub Puller

The H50 Universal Wheel Hub Puller has 3 arms which are movable to permit instant attachment to most automotive studs. It has a striking wrench handle and swivel point to eliminate possible damage to the axle. Special Floating hub design permits use of hammer on forcing screw handle giving the extra power of impact tool. The H55 Adaptor puller is for use on Fords, models 36 to 39. This puller is used with the H50 puller by removing one of the H50 arms.



No. 1152 Steering Wheel Puller

The No. 1152 Steering Wheel Puller ends hammering, battering and breakage. Positioned with hinged ring pads under the spokes and pressure block on end of column. Puller has spread of 10 inches. Screw 7 inches long. Hinged ring 5¼ inches in diameter.



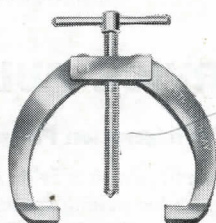
TOOL NO.	A RING DIAMETER	B FORCING SCREW WITH COLLAR LENGTH	SCREW DIA.	D REACH	WEIGHT
1152	5¼	7⅞	½-13	3⅞"	7 lbs.

No. 48 Pitman Arm Puller

The P48 puller is designed for the removal of Pitman steering arms and is used in many cases where a tool of this type is needed for removing pinions and small gears. Reach 2½". Diameter 4".

No. TL18 Fan Propeller Puller

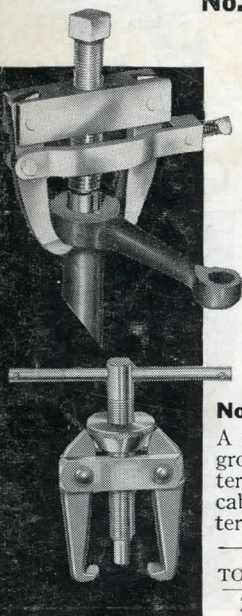
This tool with its special designed arms for the pulling of cooling fans, special gears and bearings. Will take up to 4" in diameter and reach to 3¼". Has long hooks on jaws.



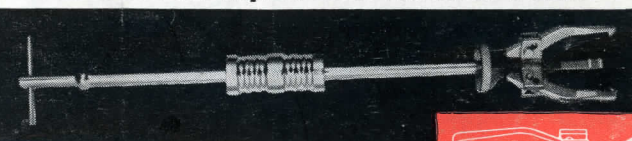
No. 252BT Battery Terminal Puller

A small, powerful puller with feet taper-ground, it fits close around a battery terminal and facilitates the removal of cables without causing damage to the terminal.

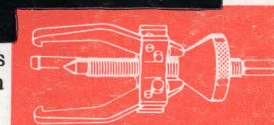
TOOL NO.	REACH	DIA.	WEIGHT
252 BT	1¼	0"-2"	1 lb.



No. 866A All Purpose Slide Hammer Puller



Does dozens of everyday automotive jobs easily and efficiently. (See description under Industrial Pullers.)



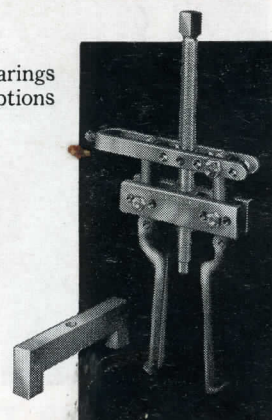
No. 61 Internal Puller

For pulling rear axle rods and bearings after axle is removed. (See descriptions under Industrial Pullers.)

Electrical Bearing Pullers

Electrical Bearing Pullers for generators, bearings and small gears. Have long flanged jaws to permit a firm grasp behind the object to be removed.

PULLER NO.	REACH	MAX. DIA.
13	3 in.	4 in.
13A	5 in.	6 in.
13AS	8 in.	6 in.



ARMSTRONG-BRAY & CO.

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